

# Converting Colors - WCAG Matrix

## Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix.

	Hex(A7BFEC)	Hex(8CA4D0)	Hex(718AB4)	Hex(577099)	Hex(3E587F)	Hex(244166)	Hex(042B4E)	Hex(001737)	Hex(000221)	Hex(000006)
Hex(A7BFEC)		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.89 Failed <sup>5</sup>	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 5.59 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.74 Passed <sup>6</sup>	Ratio: 9.60 Passed <sup>6</sup>	Ratio: 10.97 Passed <sup>6</sup>	Ratio: 11.28 Passed <sup>6</sup>
Hex(8CA4D0)	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 5.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.08 Passed <sup>6</sup>	Ratio: 8.09 Passed <sup>6</sup>	Ratio: 8.31 Passed <sup>6</sup>
Hex(718AB4)	Ratio: 1.89 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 4.11 AA 18pt <sup>2</sup>	Ratio: 5.09 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(577099)	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.86 Failed <sup>5</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>	Ratio: 4.06 AA 18pt <sup>2</sup>	Ratio: 4.17 AA 18pt <sup>2</sup>
Hex(3E587F)	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.47 Failed <sup>5</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 2.90 Failed <sup>5</sup>
Hex(244166)	Ratio: 5.59 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>
Hex(042B4E)	Ratio: 7.74 Passed <sup>6</sup>	Ratio: 5.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.11 AA 18pt <sup>2</sup>	Ratio: 2.86 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.24 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>
Hex(001737)	Ratio: 9.60 Passed <sup>6</sup>	Ratio: 7.08 Passed <sup>6</sup>	Ratio: 5.09 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>	Ratio: 2.47 Failed <sup>5</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 1.24 Failed <sup>5</sup>		Ratio: 1.14 Failed <sup>5</sup>	Ratio: 1.17 Failed <sup>5</sup>
Hex(000221)	Ratio: 10.97 Passed <sup>6</sup>	Ratio: 8.09 Passed <sup>6</sup>	Ratio: 5.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.06 AA 18pt <sup>2</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.14 Failed <sup>5</sup>		Ratio: 1.03 Failed <sup>5</sup>
Hex(000006)	Ratio: 11.28 Passed <sup>6</sup>	Ratio: 8.31 Passed <sup>6</sup>	Ratio: 5.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.17 AA 18pt <sup>2</sup>	Ratio: 2.90 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>	Ratio: 1.17 Failed <sup>5</sup>	Ratio: 1.03 Failed <sup>5</sup>	

Details can be found at <https://www.w3.org/TR/WCAG20/>.

<sup>1</sup> AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>2</sup> AA 18pt

AA level for large text above 18pt.

<sup>3</sup> AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>4</sup> AAA 18pt

AAA level for large text above 18pt.

<sup>5</sup> Failed

Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

<sup>6</sup> Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.